PATCH TEST REPORT

Patch ID: Patch_6A.08_DPL_HEG.01A	**Patch Installation Date:** 11/06/2003 **Location/Mode(s):** PVC OPS	**Lead Engineer:** John Corbett (HEG) and Linda Vaughn (DPL)

NCR Ids/Name (If not shown below):

1. **ECSed38265** OPS_DPL 2 C GSFC DPIU: Add option to turn off spatial fact population
2. **ECSed38551** OPS_DPL 2 T EDF Input file in DlCartOrderItem is truncated to 80 characters
3. **ECSed38376** OPS_DPL 5 T NSIDC GLAS NOSE orbit file needs to updated with 91 day repeat cycle tracks
4. **ECSed38167** OPS_DPL 5 T NSIDC Add the ecsID to DlGranule Access
5. **ECSed38351** OPS_DPL 2 T NSIDC 6A.07+ OPS DP Search results outside of Search criteria Time Range
6. **ECSed36640** OPS_DPL 3 T PVC Web access: time of day counts incorrect
7. **ECSed35242** OPS_DPL 3 T PVC Cleanup: Collection level directories should be deleted if empty
8. **ECSed38240** OPS_DPL 3 T GSFC The □/temp□ directory is not cleaned up after all successful inserts
9. **ECSed38313** OPS_DPL 5 T NSIDC FAILED inserts are never removed from DlInsertActionQueue
10. **ECSed38391** OPS_DPL 5 T GSFC Need accessTime index on DataPool..DlGranualeAccess table
11. **ECSed38160** OPS_DPL 5 T EDF Improve/standardize the database patch scheme for SSS subsystem
12. **ECSed38318** OPS_HEG 2 T LaRC HEG conversion error with MISR MIL2ASAE ESDT
13. **ECSed38320** OPS_HEG 2 T LaRC HEG conversion error with MISR MIL2ASLS ESDT
14. **ECSed38321** OPS_HEG 2 T LaRC HEG conversion error with MISR MIL2TCAL ESDT
15. **ECSed38656** OPS_HEG 2 T EDF Orders fail when randomly-generated file names contain period
16. **ECSed38717** OPS_HEG 2 R PVC Problem creating parameter file for MI1B2E.
17. **ECSed38641** OPS_SYSBLD 3 M EDF HEG does not correctly incorporate ECS version info into binary

Patch Footprint: (Affected subsystems)

SSS
HEG

Test Objectives (Functional/Performance/Regression/Fault Recovery)/New Functionality/Ops Concept(s):

1. Verify NCR

Test Location/Modes/Tools: DAAC: PVC/OPS;

Test Data:.

Personnel Required
Development POC: Sally Jew, John Farley, Lisa Pann, Ray Lam, Cid Pradera, Ray Milburn
NCR Submitter(s) POC:

Other Test Requirements (Personnel, etc.)

Required Completion Date: 11/19/2003
Planned Completion Time/Date: 11/19/2003

Subsystem tailored Regression Testing:

Scenario/Test List	**Pass/Fail/ Not Tested**	**Comments**
Regression Test Run DlDbArchiveAccessStat script from /dbms/DPL directory on p0acg05. Verify that the script runs with no errors.	**P**	

Run DlDbRestoreAccessStat script from /dbms/DPL directory on p0acg05. Verify that the script runs with no errors.	**P**	
Run DlDbDeleteAccessStat script from /dbms/DPL directory on p0acg05, using a start and end date that will only delete the most recent day of access stats. Verify that the script runs with no errors	**P**	
Perform 2 hours of Data Pool Insert load testing (GDAAC or EDC scenario) - make sure that the spatial fact population config parameter (USE_SPATIALWAREHOUSE) is turned ON. **MODE**: OPS mode (so that copies are from AMASS, not disk)	**P**	
After the run: Check DlInsertActionQueue for status values for all granules inserted during the insert regression testing period (count by distinct status) – investigate all failures	**P**	
Drill Down Perform several complete Data Pool drill downs in OPS mode, using cases where granules in the 2.1 insert regression test are in the results set. Verify that all drill down steps execute correctly and within expected times.	**P**	
Regression Test Run MOD10A1.004 granule with local granule ID = MOD10A1.A2003246.h13v01.004.2003258033003.hdf, dbID = 2014114067 Select GeoTIFF Geographic projection	**P**	Successful generation of 2 tif files. Order ID 0000000000000052
Run AST_L1B.003 granule with local granule ID = AST_L1B_00307292001100121_08072001130913.hdf, dbID = 2014098328	**P**	Successful staging of HDF-EOS file and corresponded xml file. Order ID 0000000000000051
Run AST_L1B.003 granule with local granule ID = AST_L1B_00307292001100121_08072001130913.hdf, dbID = 2014098328 Select GeoTIFF Geographic projection	**P**	Successful generation of 15 tif files. Order ID 0000000000000050

NCR#	Inputs/Actions:	Outputs/Expected Results:	Pass/Fail/ Not Teste	Comments:
38265	Add option to turn off spatial fact population		**C**	Not tested, NCR is CLOSED
38551	Complete path+filename contained in required field.	Run now runs to completion.	**P**	Problem not originally seen in PVC since path length Examine size of field in PVC now 2
38376	GLAS NOSE orbit file needs to be updated with 91 day repeat cycle tracks		**NT**	Needs to be tested at the DAAC (NSIDC)
38167	Verify by isql (sp_help DlGranuleAccess) that the DlGranuleAccess table now contains the ecsId column, and that an index exists on the accessTime column. Run EcDlRollupFtpLogs.pl (in the /utilities directory on p2dps01). Run EcDlRollupWebLogs.pl in the /utilities directory on p2dps01).	The script runs without error, and the ecsId is added to the DlGranuleAccess table for all rows written by the script.	**P**	
38351	Bring down the DataPool Web Access Gui Drill down on collection MOLT/MOD09A1.077	The time of day drill down screen, time selections are in 30 minute intervals, not in 5	**P**	

	Select "Skip Temporal" to go to the "Time of Day" drill down screen. . Select the half hour interval which display the time intervals in 1/2 hour increments. Select an interval and retrieved the granules.	minute intervals. The granules in that 30 minute results set each had XML metadata present.		
36640	Perform a web access drill down on an ESDT for which there are granules in the Data Pool database DlFactTimeOfDay table where timeOfDayType = "D". (try MOD43B3.001). Verify that the granule count displayed on the hour grid (e.g., the granule count for 1:00 - 2:00) is the same as the granule count displayed on the screen after that box (e.g., 1:00 - 2:00) on the hour grid is selected.	The granule count displayed was consistent with the granule count on the time of day grid on both screens. The problem doesn't seem to be occurring anymore.	**P**	The problem doesn't seem to be occurring anymore.
35242	Use the BatchInsert utility (EcDlBatchInsert.pl in the /utilities directory on p2dps01) to insert granules in a collection for which no granules are currently present in the Data Pool. Verify that a collection level directory and all subdirectories are created under /datapool/<mode>/user. Run the Cleanup utility (EcDlCleanup.pl in the /utilities directory on p2dps01) with the -file option, to cleanup all granules inserted.	The collection-level and all lower level directories were removed	**P**	
38240	Ran the EcDlCleanupDataPool.pl script using the "- orphan" and "- maxorphanage <200>" options Tail the EcDlCleanup.log	Received messages indicating that the directories were removed. "Empty temp directory removed: 2013168006"	**P**	
38313	Using isql, check the DlInsertActionQueue table in the Data Pool database for failed inserts and their dates (e.g., select count(*) from DlInsertActionQueue where status = "FAILED"; select min(completionTime), max(completionTime) from DlInsertActionQueue where status = "FAILED".) Run script DlDbRemoveIAQ.ksh)(in the /dbms/DPL directory on p0acg05), using a date where some failed inserts will be deleted and some will remain.	The script runs without errors, the failed inserts on or older than the specified date are removed from DlInsertActionQueue, and the failed inserts after the specified date remain in DlInsertActionQueue.	**P**	
38391	Verify by isql (sp_help DlGranuleAccess) that the DlGranuleAccess table now contains the ecsId column, and that an index exists on the accessTime column. Run EcDlRollupFtpLogs.pl (in the /utilities directory on p2dps01). Run EcDlRollupWebLogs.pl in the /utilities directory on p2dps01).	The script runs without error, and the ecsId is added to the DlGranuleAccess table for all rows written by the script.	**P**	
38160	EDF Improve/standardize the database patch scheme for SSS subsystem		**P**	Verified in the EDF
38318	"HEG conversion error with MISR MIL2ASAE ESDT" - Large number of fields in data set requires dynamic allocation space for		**P**	

	field names and associated information - Rerun with data that previously failed. (local granule ID = MISR_AM1_AS_AEROSOL_P187_O008476_F05_0012.hdf, dbID = 2014198468) - Select GeoTIFF Geographic projection. Subset granule using SPATIAL_SUBSET_UL_CORNER = (37.807719047 13.917583847) SPATIAL_SUBSET_LR_CORNER = (35.905121972 19.980871326)	Successfully execution of HEG		Successful generation of 77 tif files. Order ID 0000000000000045
38320	"HEG conversion error with MISR MIL2ASLS" - HEG execution terminates prematurely. - Rerun with data that previously failed. (local granule ID = MISR_AM1_AS_LAND_P187_O008476_F03_0011.hdf , dbID 2014169079) - Select GeoTIFF Geographic projection.	Successfully execution of HEG	**P**	Successful generation of 666 tif files. Order ID 0000000000000046
38321	"HEG conversion error with MISR MIL2TCAL" - HEG fails to generate output tif files. - Rerun with data that previously failed. (local granule ID = MISR_AM1_TC_ALBEDO_P187_O008476_F02_0004.hdf, dbID = 2014198470) - Select GeoTIFF Geographic projection.	Successfully execution of HEG.	**P**	Successful generation of 1152 tif files. Order ID 0000000000000047
38656	"Orders failed when randomly generated file names contained period" - Temporary files with randomly generated file names that used a period as a random character in generating file name failed. - Rerun with data that previously failed. (local granule ID = MISR_AM1_GRP_ELLIPSOID_GM_P187_O008476_AN_F02_0017.hdf, dbID = 2014098329) - Select GeoTIFF Geographic projection.	Successfully execution of HEG	**P**	Successful generation of 360 tif files. Order ID 0000000000000043
38717	"An 'Array index out of bounds' error is occurring for MI1B2E, because of the way the MISR blocks are organized." - Problem introduced by recent merges to MISR HEG NCRs. - Rerun with data that previously failed. (local granule ID = MISR_AM1_GRP_ELLIPSOID_GM_P187_O008476_AN_F02_0017.hdf, dbID = 2014098329) - Select GeoTIFF Geographic projection.	Successfully execution of HEG	**P**	Successful generation of 360 tif files. Order ID 0000000000000043
38641	"HEG does not correctly incorporate ECS version info into binary" - No impact to HEG execution. - Inspect HEG executables with "what" command.	"what" command of HEG executables returns 6A08 build information.	**P**	6A08 build information contained in HEG executables.
List of Artifacts/Attachments (Procedures/data/etc.): N/A				

Signature of Lead Engineer: _____	Completion Date: 11/19/2003